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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/544,000	04/06/2000	David A. Cathey	3976US (98-0063)	7982
7590 09/08/2005			EXAMINER	
James R Duzan			ABDULSELAM, ABBAS I	
Trask Britt & Ro	ossa		ART UNIT	PAPER NUMBER
PO Box 2550			ARTORIT	TALER NOMBER
Salt Lake City, UT 84110			2677	

DATE MAILED: 09/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/544,000	CATHEY, DAVID			
		Examiner	Art Unit			
		Abbas I. Abdulselam	2677			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 05/20/05.						
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□	<ul> <li>4)  Claim(s) 1,2,5,8,9,19 and 22 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) 19 and 22 is/are allowed.</li> <li>6)  Claim(s) 1,2,5,8 and 9 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Application	on Papers					
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment	•	🗖 .				
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/ No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 08) 5) Notice of Informal 6) Other:				

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## **DETAILED ACTION**

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## Response to Arguments

1. In view of the appeal brief filed on 05/20/05, PROSECUTION IS HEREBY REOPENED as set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
  - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dreher (USPN 4551717) in view of Inobe et al. (USPN 4882581).

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In regard to claims 1 and 8-9, Dreher discloses a computer keyboard comprising: an enclosure member; plurality of depressible key switch (10) devices arrayed above said printed circuit board (co1.2, lines 60-65); a key cap (11) mounted atop each switch device of plurality, each key cap having at least one identifying graphic symbol (20) (Fig. 3, col. 3, lines 2-3) formed on an upper surface thereof (see Figs 1-3) and luminescent material embedded within each key cap (11) (col. 1, lines 47-50). Further, Dreher teaches a key (10) for use on a terminal with a key cap top has a luminescent material (14) (LED) embedded with the key cap (11). However, Dreher does not teach a key cap with respect to a first material having no electrical connection thereto including one of a black material and a dark-colored non-luminescent material. Dreher also does not teach a second luminescent material different than the first material forming the identifying graphic symbol, the second luminescent material embedded within each key cap substantially throughout.

Inobe on the other hand teaches a keyboard structure in which a keyboard luminates for a certain duration after it has been irradiated with a light source for a while, thereby allowing the user to perform a key entry in the dark while viewing the display panel. Inobe teaches as shown in Fig. 5 a key mat fitting structure in which in order to display the name of keys 22, a key mat 26 made of a sheet magnetic material is laid, with labels 27 being printed on the mat surface.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Dreher's key display system to adapt Inobe's keys (22) as configured with key mat (26) shown in Fig. 5 because the use of key mat helps function a keyboard in dark environments as taught by Inobe.

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As to claim 2, Dreher teaches keys for keyboards (col. 1, lines 5-7) and all features are well known in the art.

3. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dreher in view of Inobe et al. (USPN 4882581) and Takami (US Pat. No. 4,205,522).

In regard to claim 5, Dreher as modified has been discussed above. In addition, Dreher discloses computer keyboard comprising: an enclosure member with printed circuit board (Fig. 1), a plurality of depressible key switch devices arrayed above said printed circuit board (col.2, lines 60-65); a key cap (11) mounted atop each switch device of plurality, each key cap having at least one identifying graphic symbol (20) (Fig. 3, col. 3, lines 2-3) formed on an upper surface thereof (see Figs 1-3) and luminescent material embedded within each key cap.

Dreher does not teach a "luminescent material including tritium" within at least one symbol of key cap.

However, Takami discloses an LCD device, which includes a luminescent phosphor, the luminescent phosphor includes a tritium (see the abstract).

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to employ the tritium for illuminating the LCD display embedded in the key cap of Dreher because it will provide cheap natural back light source for displaying key designation and would readily understood by those skilled in the art that it would represent an

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alternative choice for a backlight, which advantageously does not require additional electrical

power.

Allowable Subject Matter

4. Claim 19 and 22 are allowed.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Abbas I. Abdulselam whose telephone number is (571) 272-7685.

The examiner can normally be reached on Monday through Friday from 9:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bipin Shalwala, can be reached on (571) 272-7681. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abbas abdulselam

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Examiner

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September 3, 2005

XIAD WU
PRIMARY EXAMINER